

water
based rust
converter
coating



Aqueous based Rust Converter

NO-RUST is a water reducible emulsion that has been designed for field application to rusted untreated steel which has or has not been hand or power cleaned, or blasted.

NO-RUST neutralises the corrosion process. It reacts quickly with the rust and transforms iron oxides into a stable and insoluble blue-black metallo-organic complex which is ready for painting after reaction.



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No - Rust

The durability of a paint system depends as much upon the surface preparation as upon the quality of the coating. Even the best paint will not give full protection when applied on a steel surface, which is not entirely rust free, and this fact has caused many problems, despite existing techniques available for surface preparation. Most mechanical surface treatments, such as scraping, hand brushing or power cleaning, do not remove all the rust from the cavities of the surface, and the presence of this residual rust encourages continuation of the corrosion process under the coating.

Blasting the surface to white metal provides an excellent substrate for paint, but a freshly blasted surface is highly reactive, and once exposed to atmospheric humidity, dew or rain, will rust quickly. This means that to maintain investment in blasting for instance, the freshly blasted surface must be coated immediately. For all its advantages as a base for paint, sandblasting is often ruled out due to cost, environment protection, inconvenience of rigging, dust and spark potential, limited size of area to be cleaned, difficulty of arranging blasting/painting cycles, etc.

Similarly acid surface pre-treatment for corroded steel surfaces have shown limited advantage in relieving the problem. Removal of the rust is extremely difficult under temperature, concentration and application conditions of the field. Also in many situations, residual acids or salts left in the pores of the rust have caused failure by osmotic blistering of the paint system.

Even under the best field conditions, the use of conventional phosphoric acid based pre-treatment is also unsatisfactory. Such products do not accomplish a true passivation of the metal surface, and their reaction with the different rust layers is not homogeneous and inefficient. Since residual rust can encourage further under film corrosion and since acid cleaning in the field is unsatisfactory, an ideal solution would be to completely passivate the tightly bound residual rust, chemically preventing it from participation in further corrosion.

NO-RUST has been developed with this principle in mind.

NO-RUST offers in addition a barrier effect.

NO-RUST penetrates directly into the residual rust.

NO-RUST reacts quickly with the rust. Average reaction time is 3 hours. The film which is formed is water insoluble and even hydrophobic.

NO-RUST is an excellent adhesion promoter for subsequent coating systems. Contrary to most chemical treatments of the rust, it is not necessary to wash the treated surface with water before the application of the first coat of paint.

NO-RUST reacts also with steel that has been blasted to white metal or thoroughly cleaned with abrasive disk or paper.

NO-RUST treatment can be carried out on humid surfaces.

